Trade and Industrial Education
Course: Theory of Flight
Course Code # 5720
1 Credit

School Year _____

Term:____Fall____Spring

Student:	Grade:
Teacher:	School:
Number of Competencies in Course:	**35**
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Lead a team.		
1.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.		
1.3	Assess client complaint and apply problem-solving and decision-making skills to communicate with the client.		
1.4	Demonstrate teamwork skills.		

STANDARD 2.0: Students will analyze the flight environment and its relationship to safety.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Analyze important safety considerations for flight and ground operations.		
2.2	Differentiate between controlled and uncontrolled airports and their environments.		
2.3	Interpret aeronautical charts.		
2.4	Differentiate between controlled and uncontrolled airspace.		

STANDARD 3.0: Students will assess communication and flight information systems.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Explore radar, transponder operations, and FAA radar equipment and services for visual flight rules (VFR) aircraft.		
3.2	Examine radio equipment and procedures.		
3.3	Access sources of flight information.		

STANDARD 4.0: Students will analyze weather formation and hazards to aircraft operations and interpret weather data.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Examine basic weather theory and causes of various weather conditions, frontal systems and hazardous weather phenomena.		
4.2	Explain how to recognize critical weather situations from the ground and during flight.		
4.3	Distinguish sources of weather information during preflight planning and while in flight.		

STANDARD 5.0: Students will demonstrate comprehension of Federal Aviation Regulations that apply to private pilot operations.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Examine private pilot privileges and limitations.		
5.2	Evaluate National Transportation Safety Board (NTSB) accident reporting requirements and advisory circulars.		

STANDARD 6.0: Students will examine principles of aerodynamics used to predict aircraft performance and weight and balance

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Explore the effects of varying conditions on airplane performance.		
6.2	Use relevant data to predict airplane performance.		
6.3	Apply mathematical concepts to weight and balance.		

STANDARD 7.0: Students will examine the various types of navigation in pilotage and dead reckoning.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Analyze navigation by pilotage.		
7.2	Analyze navigation by dead reckoning.		
7.3	Examine the Very High Frequency OmniRange Navigation System (VOR).		
7.4	Examine the use of ADF navigation equipment.		

STANDARD 8.0: Students will analyze human factor principles and identify their effect on aviation physiology and aeronautical decision making.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Explore the factors that affect aeronautical decision making.		
8.2	Explore techniques for enhancing safety in the cockpit by improving pilot judgment and decision making skills.		

STANDARD 9.0: Students will examine cross-country flying.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	Follow recommended procedures and guidelines for flight planning.		
9.2	Perform mathematical computations for flight.		

STANDARD 10.0: Students will demonstrate communication skills required in the aviation industry.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
10.1	Communicate and comprehend oral and written information typically occurring in the aviation workplace and in flight.		
10.2	Solve problems and make decisions using a logical process.		
10.3	Use teamwork skills to accomplish goals, solve problems, and manage conflict within groups.		

STANDARD 11.0: Students will demonstrate interpersonal and employability skills required in the aviation industry

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
11.1	Infer relationships between honesty, integrity, and organization and personal job success.		
11.2	Demonstrate attitudes conducive to workplace success.		
11.3	Assess implications of cultural and religious diversity for classroom and workplace relationships.		

Additional Comments _____